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#### ABSTRACT

A synthetic pulmonary surfactant comprising a pharmaceutically acceptable phospholipid admixed with a polypeptide comprising at least 10 amino acid residues and no more than about 60 amino acid residues, said polypeptide including a sequence having alternating hydrophobic and hydrophilic amino acid residue regions represented by the formula  $(Z_aU_b)_cZ_d$ , wherein:

*H* Z is a hydrophilic amino acid residue  
10 independently selected from the group consisting of R and K;

*P1* U is a hydrophobic amino acid residue independently selected from the group consisting of V, I, L, C, Y and F;

*A15* a has an average value of about 1 to about 5;

b has an average value of about 3 to about 20;

c is 1 to 10; and

d is 1 to 3;

*P1* 20 said polypeptide, when admixed with a pharmaceutically acceptable phospholipid, forming a synthetic pulmonary surfactant having a surfactant activity greater than the surfactant activity of the phospholipid alone.

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